Missouri Department of Transportation Job Description

Job Title: Bridge Inspection Engineer

Title Code: R05858

Salary Grade: 12

Exemption Status: Exempt

Supervisory Responsibilities: Full Supervision

District/Division: Central Office – Bridge

Effective Date: 10-01-2025

Replaces (Effective Date): 01-16-2025

General Summary

The bridge inspection engineer supervises bridge inspection crews that perform federally mandated inspections on bridges to ensure the safety of the traveling public, assign condition and appraisal ratings, and determine structural soundness and maintenance needs; provides technical expertise on bridge maintenance to Districts. Responsibilities are performed under general supervision.

Minimum/Required Qualifications

- Bachelor's degree in civil or structural engineering from an ABET-accredited college or university curriculum.
- Licensed as a Professional Engineer in the State of Missouri.
- Requires completion of Cardio Pulmonary Resuscitation and first aid training.
- Must meet the requirements for a Team Leader for bridge inspections in accordance with the National Bridge Inspection Standards (23 CFR 650 Subpart C) within six (6) months of start date.
- Must pass physical exam annually to remain in the job.
- Successful completion of a range of motion examination and a medical-physical examination.
- Six years of experience in highway or transportation engineering.

Special Working Conditions/Job Characteristics

- Job requires regular, statewide, overnight travel.

- This title requires advanced accreditation or licensure which is only available to holders of specific postsecondary degrees.

Examples of Work

1. Performs routine, fracture critical, special, and in-depth bridge inspection to determine structural soundness and maintenance needs; may occasionally assist the underwater bridge inspection team.

2. Schedules, assigns, and reviews work of bridge inspection crews performing fracture critical, special, and in-depth inspections to ensure inspections are in compliance with department and federal requirements.

3. Prepares reports on bridge conditions and inspections and reviews bridge inspection reports from inspection crews; writes standard operating procedures for bridge inspections.

4. Performs quality assurance inspections of bridges in accordance with requirements outlined in the Bridge Inspection Rating Manual.

5. Serves as liaison for safety, bridge painting, and bridge repairs for internal bridge maintenance crews.

6. Performs emergency inspections of bridges damaged by collision, floods, etc., and makes recommendations for immediate actions needed to ensure public safety.

7. Creates, updates, and maintains computer-based bridge records and files.

8. Performs supervisory responsibilities.

9. Performs other responsibilities as required or assigned.